

*Prairie Hills Wireless LLC was founded in 2013 by Kent & Sara Urwiller. We are located out of Ravenna, NE which is a town of approximately 1,500 citizens. The majority of our service area includes those that are currently only serviced by satellite internet companies or other wireless internet service providers. The majority of the towns that we service are 2,000 people or less.*

*We are currently able to provide, in certain areas, speeds up to 150 Mbps. There are no data limits with our service as we charge based off of how much speed our customers wish to receive. We are beginning to see more and more of our customers requesting higher speed packages as their bandwidth requirements become greater due to the addition of various wireless devices and streaming services within the home.*

*There is a heightened need for higher speed packages in the more rural areas. However, due to high amounts of interference, it is difficult to offer those speeds to customers that wish to have them outside of city limits. The spectrum in our area is becoming more and more saturated not only by other WISPs but also by phone providers.*

*Everyday 5GHz spectrum is becoming more and more crowded. 2.4GHz band as well as 900 MHz are exhausted. The internet of things and other wifi devices will need to be faster in the future to meet demand. More spectrum is needed to provide reliable speeds to every device a user uses. With more spectrum, WISPs can deliver fiber-fast speeds at a fraction of the cost of the incumbent. More spectrum could allow fixed wireless speeds of up to 1Gbps.*

*With spectrum becoming more crowded from other un-licensed users and wireless devices, it is increasingly making things more challenging for the provider to keep the highest quality of service to the end user. Speeds, latency and reliability are affected. Unfortunately, these levels of congestion cause us to have to remove equipment and replace with new equipment in a different frequency in order to attempt to provide better quality service to end users. However, sometimes better quality is still unachievable as most every frequency is crowded. Keeping spectrum protected will increase the value and attraction to investing in equipment that is compatible and allow for better service to end users as daily lifestyles change to accommodate the need for more bandwidth in the home and business.*

*Line of sight is a necessity with the current frequency use. In our area, trees are dense and un-licensed frequencies are becoming more and more overloaded. The foliage causes a need for multiple tower sites to be obtained resulting in thousands of dollars spent that would not be needed should other frequencies be made available and protected. The more towers we use, the greater the self interference which results in even more issues that call for finances in order to fix and in some cases are not fixable causing a loss of customers in unreachable areas. Therefore, the need for more spectrum becomes greater and greater each passing day.*

*Purchasing more spectrum an at auction would be ridiculously expensive due to large corporations coming in and upping the sale price in their attempt at gaining more spectrum for their own advances. WISPs would benefit from avoiding these auctions by being able to save money spending only a set amount and provide economically sound service through equipment that is far easier to maintain and not nearly as expensive to purchase up front.*

*With the availability of the 20/40/80/160 MHz channels, we would be able to provide speeds up to 1 Gbps. This would increase the customer base as bandwidth needs become greater. Allowing for the expansion of locally owned companies such as our own versus monopolizing by large corporations.*